Message Text

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PAGE 01 TOKYO 06963 200837Z ACTION OES-07

INFO OCT-01 EA-12 ISO-00 EPAE-00 SOE-02 CCO-00 PASO-00

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R 200813Z APR 78 FM AMEMBASSY TOKYO TO SECSTATE WASHDC 7259 DOE GERMANTOWN MD DOE WASHDC

UNCLAS TOKYO 06963

TO: WILLIAM G. YEICH, UTILITY COMBUSTION SYSTEMS

- THE MITRE CORP.
- 1820 DOLLEY MADISON BLVD., MCLEAN, VA 22101

DOE FOR BIONDO

E.O. 11652: N/A TAGS: TECH, JA

SUBJECT: ATMOSPHERIC FLUIDIZED BED COMBUSTION (AFBC)

REF: (A) APRIL 18 TELECON HENOCH-BIONDO; (B) APRIL 13 TLX YEICH TO HENOCH

1. IN RESPONSE TO REFS A AND B, FOLLOWING INFO OBTAINED FROM PROF. ANDO, CHUO UNIVERSITY:

A. MITI STARTING FEASIBILITY STUDIES ON AFBC JOINTLY WITH INDUSTRY. JFY 1978 BUDGET ABOUT \$250,000. ALLOCATION TO INDUSTRY UNDECIDED. UNTIL JFY 1977, NO GOVERNMENT FUNDS ALLOCATED TO AFBC R&D IN INDUSTRY

B. MITI TENTATIVE REPEAT TENTATIVE ADMINISTRATIVE GUIDELINES FOR AFBC DEVELOPMENT CALLS FOR 1.5 MWE PILOT PLANT FOR COMPLETION IN 1979-1981, 30 MWE DEMONSTRATION PLANT IN 1981-1983, 100 MWE PROTO-UNCLASSIFIED

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TYPE PLANT IN 1984.

C. NAGOYA INSTITUTE OF TECHNOLOGY PLANS SMALL BENCH-SCALE TEST; CURRENTLY APPLYING FOR EDUCATION MINISTRY FUNDING.

D. TOKYO UNIVERSITY CONDUCTING EDUCATION MINISTRY FINANCED BENCH-SCALE TEST WITH COMBUSTION TUBE 50MM IN DIAMETER, 60 TO 600 GRAMS

OF COAL PER HOUR IN CAPACITY, TO STUDY LOW NITROGENOXIDE COMBUSTION. NO PLANS YET TO USE LIMESTONE OR SIMILAR MATERIAL FOR SULFUR REMOVAL. STUDIES ON SO2 REMOVAL WITH SUCH MATERIAL UNDER CONSIDERATION

E. MHI STUDYING FLUIDIZED COMBUSTION FOR COAL GASIFICATION.

F. BABCOCK HITACHI CONDUCTING BENCH-SCALE TEST WITH FURNACE OF 100 KILOGRAMS OF COAL PER HOUR CAPACITY. JAPANESE COAL SUCH AS MIIKE COAL (S 2.5 PERCENT) AND TAIHEIYO COAL (S 0.3 PERCENT) HAVE BEEN USED. ABOUT 90 PERCENT DF S02 WAS REMOVED BY LIMESTONE. PLANS INCLUDE USE OF SYNTHETIC ABSORBENT SEPARATED FROM FLY ASH. TWO-STAGE COMBUSTION APPLIED TO REDUCE NITROGEN OXIDE TO 150 PPM.

G. KAWASAKI HEAVY INDUSTRIES USING TEST BED OF 60 KILOGRAMS OF COAL PER HR CAPACITY. ABOUT 90 PERCENT OF S02 WAS REMOVEDBY DOLOMITE.

H. BABCOCK HITACHI AND KAWASAKI INDICATED INTENTION TO DEVELOP TECHNOLOGIES OF THEIR OWN.

I. MITSUI SHIPBUILDING AND ENGINEERING COMPANY PLANS COAL FLUIDIZED COMBUSTION TEST, BUT SOLELY FOR APPLICATION TO SHIP PROPULSION.

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- 2. MITI INDICATED INCREASE INBOILER EFFICIENCY, CAPABILITY TO HANDLE DIVERSIFIED KINDS OF COAL AND REMOVAL SO2 ARE IMPORTANT AIMS OF AFBC PROGRAM IN JAPAN. ALSO INDICATED THAT DEVELOPMENT GUIDELINE IS ONLY TENTATIVE AND NOTHING SPECIFIC HAS BEEN DECIDED YET.
- 3. PER DIRECTION BIONDO, EMBASSY TOLD ANDO TO CHARGE TIME AND COSTS TO DOE OR EPA CONTRACT. PRESENT UNDERSTANDING IS ANDO PLANNING TO BILL EMBASSY. IF SO, WILL NEED CHARGE NUMBER TO PROVIDE TO BUDGET AND FISCAL FOR PAYMENT. MANSFIELD

NOTE BY OC/T; PASSED ABOVE ADDEE.

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